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FEED STUFF ANALYSES

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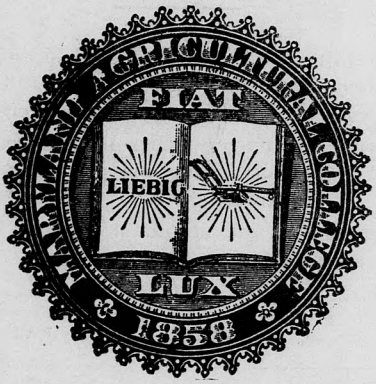

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ADDRESS

Chemical Department, Maryland Agricultural College

COLLEGE PARK, MD.

ANALYSES OF

Commercial Feeding Stuffs Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

The Maryland Agricultural College

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This bulletin contains the results of analysis of feeding stuffs made in this laboratory from December, 1910 to April, 1911 inclusive. The arrangement is in alphabetical order of manufacturers.

Concentrated feeding stuffs are generally by-products, or mixtures of by-products, and the analysis of any one of them will vary some, depending on the method of preparation, etc.

The following should be the minimum analysis of the feeds named, and are given for comparison:

	PROTEIN.	FAT	CRUDE FIBER (Usual Limits.)
Cotton Seed Meal	40 Per Cent.	8 to 9 Per Cent.	6 to 8 Per Cent.
Linseed Oil Cake Meal	35 "	7 "	8 to 9 "
Gluten Meal	33 to 36 "	2 "	1½ to 2½ "
Gluten Feed	25 "	3 "	7 to 9
Germ Oil Meal	23 "	10 "	
Malt Sprouts	23 "	1 to 2 "	12 to 14 "
Dried Brewers' Grains	20 "	3 "	10 to 12 "
Dried Distillers' Grains, Rye	17 to 18 "	10 to 12 "	12 to 14 "
Dried Distillers' Grains, Corn	28 to 30 "	10 to 12 "	12 to 14 "
Wheat Middlings	17 to 18 "	5 "	4 to 7 "
Wheat Bran	15 "	4 to 5 "	9 to 11 "
Ground Oats	11 to 12 "	4 to 5 "	8 to 11 "
Corn Meal	9 to 11 "	3 to 5 "	1 to 2½ "
Oat Straw	3 to 5 "	1 to 1½ "	35 to 40 "
Oat Hulls	3 to 4 "	1 to 1½ "	28 to 32 "
Corn Cobs	2 to 3 "	½ to 1 "	30 to 33 "
Meat and Bone Meal	40 "	10 "	½ to 1 "
Meat Meal	60 "	10 "	½ to 1 "

The following table contains the results of analysis of samples taken, for the most part, by our official samplers:

No.	Name of Manufacturer or Agent.	Name of Feeding Stuffs.	Place of Sampling.	Protein.		Fat or Ether Extract.		Crude Fiber.	
				FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.
20173	Ajax Milling & Feed Co., New York, N. Y.	Ajax Flakes.....	Baltimore.....	30.80	30.00	13.30	11.00	12.96	12.00
20096	American Cotton Oil Co., New York, N. Y.	Choice Cotton Seed Meal.	Baltimore.....	41.51	41.00	8.79	9.00	4.26	10.50
20191	American Linseed Co., New York, N. Y.	Old Process Oil Meal....	Taneytown.....	36.86	32.00	7.25	5.00	7.78	.....
20171	American Maize Products Co., New York, N. Y.	Cream of Corn Gluten Feed.	Baltimore.....	24.66	23.00	3.35	2.50	6.35	3.50
20181	American Milling Co., Chicago, Ill.	Amco Cotton Seed Meal.	Walkersville..	39.84	41.00	8.77	8.00	8.93	10.00
20117	" " " "	Sucrene Dairy Feed....	Hydes.....	14.39	16.00	4.66	3.00	9.04	12.00
20118	" " " "	Sucrene Horse & Mule Feed.	Philopolis.....	11.85	10.00	3.49	3.00	10.15	13.50
20144	Baugh & Sons Co., Baltimore, Md.	Meat Meal for Poultry..	Baltimore.....	66.33	50.00	12.44	14.00	1.02	.....
20148	Berg Co., Philadelphia, Pa.	3 Medal Poultry Meat...	Chestertown..	53.30	50.00	13.10	13.00	1.76	1.00
20157	Blatchford Calf Meal Factory, Waukegan, Ill.	Blatchfords Calf Meal..	Baltimore. ...	24.57	25.00	5.43	5.00	5.20	5.00
20196	F. W. Bolgiano & Co., Washington, D. C.	Good Luck Meat Meal..	Kensington....	58.63	65.00	15.91	10.00	.93	.....
20111	J. Bolgiano & Son, Baltimore, Md.	Square Deal Beef Scrap.	Baltimore.....	36.15	10.31	15.35	15.00	1.04	.....
20129	" " " "	Square Deal Chick Food.	Baltimore.....	9.30	10.01	3.06	3.89	2.36	2.76
20130	" " " "	Square Deal Chick Starter.	Baltimore.....	9.56	9.48	3.57	4.14	2.51	2.70
20113	" " " "	Square Deal Pigeon Food	Baltimore.....	12.29	12.35	3.38	3.47	3.18	2.76
20112	" " " "	Square Deal Poultry Food.	Baltimore.....	11.67	11.50	5.29	3.87	2.57	2.70
20140	F. W. Brode & Co., Memphis, Tenn.	Dove Brand Pure Cotton Seed Meal.	Baltimore....	36.51	38.00	11.66	7.00	9.55	10.00
20192	Robt. B. Brown Oil Co., St. Louis, Mo.	Old Process Linseed Meal	Linwood.....	34.58	34.00	8.69	9.00	6.92	.....
20193	" " " "	Prime Cotton Seed Meal.	Linwood.. ..	37.64	39.00	9.34	7.00	9.79	. ....

Analysis of Feeding Stuffs.

No.	Name of Manufacturer or Agent.	Name of Feeding Stuffs.	Place of Sampling.	Protein.		Fat or Ether Extract.		Crude Fiber.	
				FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.
20098	J. J. Buffington & Co.. Baltimore, Md.	Buff Brand Scratch Feed	Baltimore....	10.62	10.00	3.10	2.50	3.02	5.00
20115	Central Feed Co., Baltimore, Md.	Scratch Feed.....	Baltimore....	9.92	9.00	4.08	4.00	2.77	3.00
20188	Continental Cereal Co,, Peoria, Ill.	Continental Gluten Feed	Bynum.....	27.91	.....	16.46	.....	7.99	.....
20119	Corn Products Refining Co., New York, N. Y.	Buffalo Gluten Feed....	Philopolis	24.92	23.00	3.77	2.50	6.46	8.50
20136	Corno Mills Co., East St. Louis, Ill.	Nutro Hen Feed.....	Baltimore... .	10.18	10.00	3.40	3.50	2.70	5.00
20182	Corby Co., Inc., Washington, D. C.	Dried Grains.....	Frederick.....	20.09	20.00	8.84	7.00	15.90	.....
20143	" " " "	*Wet Grain.....	Langdon	3.62	.....	1.70	.....	2.83	.....
20116	Cover Supply Co., Baltimore, Md.	C. S. C. Feed.....	Baltimore	9.65	10.00	4.28	4.00	3.36	7.00
20172	" " " "	Cotton Seed Meal.....	Baltimore....	40.45	.....	7.09	.....	9.43	.....
20174	Cyphers Incubator Co., Buffalo, N. Y.	Developing Food.....	Baltimore.....	10.53	10.30	2.90	4.00	1.61	.....
20175	" " " "	Forcing Food.....	Baltimore.....	11.50	12.30	3.19	4.10	3.40	.....
20176	" " " "	Laying Food.....	Baltimore.....	16.23	17.31	3.43	3.80	4.83	.....
20141	Dairy Food Co., Cockeysville, Md.	Dairy Food.....	Baltimore.....	17.02	16.20	12.69	14.55	16.11	.....
20161	" " " "	Distillery Bran.....	Baltimore.....	16.06	16.20	12.60	14.55	11.72	14.52
20107	" " " "	Dried Distillers' Grains.	Baltimore.....	16.41	16.00	13.03	10.00	13.61	14.00
20183	Albert Dickinson Co., Chicago, Ill.	Pine Tree Scratch Feed.	Hagerstown...	10.62	10.00	2.94	2.50	2.10	.....
20162	" " " "	White Cross Scratch Feed.	Baltimore.....	9.92	10.00	2.62	2.50	2.15	5.00
20184	" " " "	White Cross Stock Feed.	Hagerstown...	9.13	10.00	3.53	3.50	6.85	10.00
20105	S. M. Dinsmore & Co., Baltimore, Md.	Ideal Horse Feed.....	Baltimore.....	10.18	10.00	4.37	4.00	3.64	6.00
20194	Jonas F. Eby & Son, Lancaster, Pa.	Crystaloid Dairy Feed..	Union Bridge..	16.76	16.50	5.18	3.50	12.79	.....
20180	Eidman & Bro., Baltimore, Md.	Chop Feed.....	Baltimore.....	7.46	.....	3.93	.....	12.46	.....

20184	" " " "	White Cross Stock Feed.	Hagerstown...	9.13	10.00	3.53	3.50	6.85	10.00
20105	S. M. Dinsmore & Co., Baltimore, Md.	Ideal Horse Feed.....	Baltimore.....	10.18	10.00	4.37	4.00	3.64	6.00
20194	Jonas F. Eby & Son, Lancaster, Pa.	Crystaloid Dairy Feed..	Union Bridge..	16.76	16.50	5.18	3.50	12.79	.....
20180	Eidman & Bro., Baltimore, Md.	Chop Feed.....	Baltimore.....	7.46	.....	3.93	.....	12.46	.....
20149	J. W. Eshelman, Lancaster, Pa.	Hen Feed.....	Chestertown ..	11.14	8.00	3.79	3.00	2.86	2.00
20095	Faultless Poultry Co., Baltimore, Md.	Faultless Poultry Food..	Baltimore.....	8.86	10.00	3.03	3.50	1.96	2.00
20102	J. M. Frisch & Co., Baltimore, Md.	Cotton Seed Meal.....	Westminster ..	42.21	41.00	9.67	8.00	5.79	.....
20131	" " " "	King, Corn & Oat Feed.	Baltimore.....	8.34	8.00	4.03	4.00	7.84	.....
20114	" " " "	Pure Old Process Oil Meal.	Baltimore.....	33.26	32.00	6.37	5.00	7.77	5.00
20108	J. J. George & Co., Baltimore, Md.	Dry Mash...	Baltimore.....	21.94	21.38	5.34	6.60	8.50	10.88
20109	" " " "	Farmers Choice Dairy Feed.	Baltimore.....	16.32	18.00	4.16	4.00	10.70	.....
20197	Globe Milling Co , Watertown, Wis.	Rye Feed.....	Silver Spring..	15.53	14.00	4.08	3.00	4.95	7.00
20167	Great Western Cereal Co., Chicago, Ill.	Best Molasses Feed.....	Baltimore.....	15.71	15.00	2.78	3.00	11.13	12.00
20185	" " " "	Boss Chop Feed.....	Hagerstown...	8.25	8.00	4.64	3.50	10.28	11.00
20150	" " " "	Boss Feed.....	Salisbury	10.27	8.00	4.75	4.00	6.52	9.00
20151	" " " "	Sterling Chick Feed....	Salisbury	11.14	10.00	3.27	3.00	1.82	4.00
20152	" " " "	Sterling Scratch Feed..	Salisbury	10.88	10.00	3.17	3.00	2.50	4.00
20121	" " " "	Sterling Stock Feed....	Glyndon.....	10.44	10.00	4.44	4.00	5.94	.....
20165	German American Sugar Co., Paulding, Ohio.	Dried Beet Pulp.....	Baltimore.....	9.39	8.00	.78	.50	18.22	20.00
20103	Wm. Hopps Grain & Hay Co., Baltimore, Md.	Dried Brewers' Grains..	Baltimore....	28.43	.....	7.60	.....	15.46	.....
20198	H-O-Co., Buffalo, N. Y.	De-Fi Feed.....	Silver Spring..	8.95	8.00	4.97	3.00	14.62	21.00
20199	" " " "	Poultry Feed.....	Silver Spring..	16.23	17.00	5.69	5.50	6.35	9.00
20164	" " " "	Jim Dandy Feed.....	Baltimore.....	7.55	7.50	2.83	2.75	23.22	.....
20132	Humphreys Godwin Co., Memphis, Tenn.	Dixie Brand Cotton Seed Meal.	Baltimore.....	38.70	38.62	9.62	6.00	7.17	8.00
20122	C. A. Krause Milling Co., Milwaukee, Wis.	Badger Dairy Feed.....	Cockeysville ..	16.85	16.00	2.01	2.00	14.24	15.00
20168	Keeton-Krueger Co., Atlanta, Ga.	Crown Brand Cotton Seed Meal.	Baltimore.....	37.91	38.62	7.04	6.00	11.11	12.00
20145	S. L. Lamberd Co., Baltimore, Md.	Chick Feed.....	Baltimore.....	8.42	10.00	3.60	3.18	1.44	1.32

Analysis of Feeding Stuffs.

No.	Name of Manufacturer or Agent.	Name of Feeding Stuffs.	Place of Sampling.	Protein.		Fat or Ether Extract.		Crude Fiber.	
				FOUND.	Guaranteed.	FOUND.	Guaranteed.	FOUND.	Guaranteed.
20146	S. L. Lamberd Co., Baltimore, Md.	Scratch Feed.....	Baltimore.....	9.04	10.06	4.56	3.06	1.94	1.48
20169	Larrowe Milling Co., Detroit, Mich.	Dried Beet Pulp.....	Baltimore....	8.34	8.00	.54	.50	17.63	20.00
20158	Guy G. Major Co., Toledo, Ohio.	Old Process Oil Meal...	Annapolis....	31.85	30.00	6.73	5.00	8.10	10.00
20133	Michigan Sugar Co., Saginaw, Mich.	Dried Beet Pulp.....	Glyndon.....	8.34	8.00	1.02	.40	19.01	.....
20137	F. E. Moore & Co., Little Rock, Ark.	Golden Brand Pure Cotton Seed Meal.	Baltimore.....	43.93	41.00	8.42	9.00	7.77	.....
20186	North-West Mills Co., Winona, Minn.	Sugarota Calf Meal.....	Walkersville..	23.87	25.00	5.11	6.00	2.65	.....
20110	" " " "	Sugarota Dairy Feed...	Baltimore.....	14.92	16.00	5.04	3.00	14.47	12.00
20159	" " " "	Sugarota Horse Feed...	Annapolis.....	10.62	12.00	3.22	3.00	14.50	14.00
20195	" " " "	Sugarota Swine Feed...	Linwood.....	16.32	16.00	5.25	3.00	12.63	.....
20147	Park & Pollard Co., Boston, Mass.	Dry Mash Feed.....	Baltimore.....	23.34	20.00	4.16	3.00	5.56	.....
20189	Quaker Oats Co., Chicago, Ill,	Molasses Dairy Feed...	Woodsboro....	15.09	16.00	4.12	3.50	15.00	12.00
20187	" " " "	Schumacher Calf Meal..	Frederick.....	18.43	19.00	8.04	8.00	1.79	3.00
20120	" " " "	Schumacher Stock Feed	Reisterstown..	10.04	10.00	3.91	3.25	11.10	.....
20153	Ralston Purina Co., St. Louis, Mo.	Chicken Chowder.....	Easton.....	17.11	16.00	4.53	2.50	7.53	9.00
20160	" " " "	Protena Dairy Feed....	Baltimore.....	19.13	20.00	6.18	3.00	12.90	14.00
20154	" " " "	Purina Feed.....	Easton.....	12.72	12.50	4.74	4.00	9.01	8.90
20139	" " " "	Purina Mill Feed—Scratch Size.	Baltimore.....	10.88	11.00	3.84	3.60	2.86	4.00
20166	M. G. Rankin & Co., Milwaukee, Wis.	Rye Feed.....	Baltimore.....	15.36	14.00	3.33	3.00	3.66	6.00
20179	Danl. Rider, Baltimore, Md.	Gluten Feed.....	Baltimore.....	26.32	.....	2.61	.....	6.79	.....
20123	St. Louis Sugar Co., St. Louis, Mo.	Dried Beet Pulp.....	Philopolis.....	8.86	8.00	1.21	.50	17.31	20.00

20166	M. G. Rankin & Co., Milwaukee, Wis.	Rye Feed.....	Baltimore						
20179	Danl. Rider, Baltimore, Md.	Gluten Feed.....	Baltimore	26.32	.....	2.61	.....	6.79	.....
20123	St. Louis Sugar Co., St. Louis, Mo.	Dried Beet Pulp.....	Philopolis	8.86	8.00	1.21	.50	17.31	20.00
20134	Wm. G. Scarlett & Co., Baltimore, Md.	Empire Brand H. G. Pigeon Feed.	Baltimore	12.55	12.50	3.86	5.90	3.75	3.50
20155	" " " "	Ground Beef Scrap.....	Cambridge	63.52	60.00	12.20	10.00	1.01	1.00
20135	" " " "	Oriole Brand H. G. Poultry Feed.	Baltimore.....	11.41	11.67	3.91	3.37	3.90	4.50
20127	C. S. Schermerhorn & Son, Baltimore, Md.	Old Process Oil Meal....	Baltimore.....	33.52	31.50	6.51	7.00	8.40	10.00
20128	" " " "	Prime Cotton Seed Meal.	Baltimore	41.16	38.61	9.02	8.00	7.94	12.00
20100	W. A Simpson & Co., Baltimore, Md.	Champion Brand Scratch Feed.	Baltimore	9.74	10.00	3.02	2.25	2.06	2.50
20126	W. N. Smith, Baltimore, Md.	Cotton Seed Meal.....	Hagerstown...	39.75	41.00	8.93	7.00	8.72	.....
20177	" " " "	Cotton Seed Meal.....	Westminster ..	33.62	41.00	9.38	7.00	11.29	.....
20163	Southern Fiber Co., Portsmouth, Va.	Cotton Seed Feed Meal.	Baltimore	18.60	22.00	4.04	4.00	22.04	22.00
20190	Swift Co., Kearny, N. J.	Beef Scrap.....	Baltimore	54.78	50.00	11.25	10.00	1.79	.....
20170	Toledo Grain & Milling Co., Toledo, Ohio.	Corn & Oats Chop.....	Baltimore	10.35	10.00	4.41	4.00	4.13	6.00
20106	Universal Oil & Fert. Co., Wilmington, N. C.	Peanut Meal.....	Perryman	22.46	34.00	11.59	.....	22.06	.....
20138	Van Iderstine Co., Long Island City, N. Y.	Darlings Pure Ground Beef Scrap.	Baltimore	61.25	55.00	11.22	5.00	2.00	3.00
20104	C. B. Watkins & Co., Baltimore, Md.	"Peerless" Chick Feed.	Baltimore	10.62	10.00	3.75	3.00	2.92	.....
20125	J. L. Wells Co., Memphis, Tenn.	Cotton Seed Meal.....	Hagerstown...	41.42	41.00	10.09	7.00	5.52	.....
20124	Western Grain Products Co., Hammond, Ind.	Hammond Dairy Feed..	Gittings.....	16.15	17.00	4.21	3.00	11.97	.....
20156	T. W. Wood & Son, Richmond, Va.	Hollybrook Scratching Food.	Baltimore	10.62	11.50	3.11	3.00	2.57	4.00
20142	R. A. Wooldridge Co., Baltimore, Md.	Beef Scrap for Poultry.	Baltimore	66.11	55.00	12.17	10.00	1.03	3.00

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